

Curriculum Vita

Golrokh Farnam

**Assistant Professor, Pharmaceutical Sciences Research Center,
Shahid Beheshti University of Medical Sciences**

Date and Place of Birth: 1992-Kermanshah

Citizenship: Iranian

Address: Junction of Hashemi Rafsanjani and Vali-asr Street,
Faculty of Pharmacy, Shahid Beheshti University of Medical
Sciences, Tehran, Iran. Phone: +989306077589

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Current Position at PSRC/SBMU:

Assistant Professor

The executive officer of the virtual desk of scientific cooperation of SBMU in the CIS countries

Laboratory technical officer of the Pharmaceutical Sciences Research Center

Education

- ▶ **High School**, National Organization for Development of Exceptional Talents (Sampad), Kermanshah, Iran. **(2007-2010)**.
- ▶ **Doctor in Pharmacy**, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran. **(2010-2016)**.
 - Thesis: FTIR Evaluation of Mouse Fetus Tissues During the Pregnancy.
- ▶ **Ph.D.** Toxicology and Pharmacology Department, School of Pharmacy, Shahid Beheshti University of Medical Sciences **(2016-2021)**.
 - Thesis: Evaluation of Preclinical Toxicity of New Anti-HER2 "91061"; Shahid Beheshti University of Medical Sciences.

Professional Experience

- ▶ Researcher, Pharmaceutical Sciences Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran, (2/2022-5/2025)
- ▶ Technical manager and project officer, PSRC-SBMU Quality Control Lab, Analysis, Quality Assurance, and Toxicity assessment of raw material and finish products seeking distribution license (since 2024)
- ▶ Pharmacy Technical Officer of Mofid Children's Hospital (11/2015 – 12/ 2018). Mofid Children's Hospital, Shahid Beheshti University of Medical Sciences.
- ▶ Pharmacist on-duty at Dr Shahram Taheri Drug Store, Tehran, Iran (11/2015 – 12/ 2016)
- ▶ Pharmacist on-duty at Dr Shahbazi Drug Store, Tehran, Iran (7/2015 – 11/ 2015)

Major Research Interests

- Cancer biology and anti-cancer drugs
- New compounds toxicity at the molecular, cellular and animal levels
- Research studies in the field of legislation and standardization
- Acute, sub-acute, and chronic toxicology evaluation of raw materials and finish products (Drugs, pesticides, hygiene, cosmetics, and nutrition)
- Instrumental analysis e.g. HPLC, FTIR, Flow cytometry

Memberships of Professional Societies

2014-Present Iranian Pharmacists Association

2017-Present Medical Council of the Islamic Republic of Iran

Publication

► Published

- **2025** Niki Pouyanfar, Parnia Aftabi, Golrokh Farnam, Niloofar Masoumi, Farshad H Shirazi, Fatemeh Ghorbani-Bidkorpheh. Nanoparticle organelle targeting kinetics: a discussion on application. Journal of Drug Delivery Science and Technology. Impact Factor: 4.5
- **2025** Niki Pouyanfar, Niloofar Masoumi, Mahnaz Ahmadi, Seyed Mohammad Ayyoubzadeh, Golrokh Farnam, Elham Asadian, Farshid Sefat, Farshad H Shirazi, Fatemeh Ghorbani-Bidkorpheh. Comparison of laboratory-acquired ZIF-8 drug delivery-related parameters with literature-based data via machine learning tools. Materials Today Chemistry. Impact Factor: 6.4
- **2024** Niki Pouyanfar, Golrokh Farnam, Mahnaz Ahmadi, Reyhane Masoudifar, Kamran Banan, Elham Asadian, Soraya Shahhosseini, Mohammad-Ali Shahbazi, Farshad H Shirazi, Fatemeh Ghorbani-Bidkorpheh. Synthesis, modification, characterization, and in vitro evaluation of chitosan-hyaluronic acid coated MIL-100 (Fe) nanoparticles for methotrexate delivery in rheumatoid arthritis. International Journal of Biological Macromolecules. Impact Factor: 7.7
- **2024** Arezou Mahdavinejad, Shahin Shadnia, Kiana Farhadinejad, Golrokh Farnam, Farshad H. Shirazi. Saliva Lipids May Determine Alprazolam Toxicity: An FTIR Study. IJ Pharmaceutical Research. Impact Factor: 1.8
- **2024** Zahra Peivandi, Farshad H Shirazi, Shahram Teimourian, Golrokh Farnam, Vahid Babaei, Neda Mehrparvar, Nasim Koohsari, Azadeh Ashtarinezhad. Silica nanoparticles-induced cytotoxicity and genotoxicity in A549 cell lines. Scientific Reports. Impact Factor: 3.8
- **2024** Maryam Morakabati, Nooshin Meraji, Farshad Hosseini Shirazi, Golrokh Farnam, Rashid Mahdavi. Effect of Cold Work and Heat Treatment on Mechanical Properties and Biocompatibility of Ti-10Cr Alloy. Transactions of the Indian Institute of Metals. Impact Factor: 1.5
- **2024** Azita Noshirvani Sharifabad, Alireza Khosravi, Farshad H Shirazi, Hanieh Shaki, Golrokh Farnam, Hamid Reza Moghimi, Farzad Kobarfard. Naphthalimides as anti-cancer agents: systematic synthesis and biological activity along with their encapsulated G0. 5 PAMAM dendrimer nanoparticles. New Journal of Chemistry. Impact Factor: 2.7
- **2022** Safaei Behnoosh, Baharloui Maryam, Esfandiari Mazandaran Kiana, Farnam Golrokh, Houshdar Tehrani Mohammad Hassan Shirazi Farshad H. The Effect of Synthesized Triazole and Ciprofloxacin Conjugated Peptide Compounds on Biological systems. Iranian Journal of Pharmaceutical Sciences.
- **2022** Golrokh Farnam, Narges Aryanpour, Reyhaneh Behtaj, Farshad Hosseini Shirazi. The complexity of response to the proliferation agonist and antagonist agents, in the breast cancer cell lines with various receptors. IJ Pharmaceutical Research. Impact Factor: 1.8
- **2022** Nahid Ahmadi, Soraya Shahhosseini, Farshad H. Shirazi, Golrokh Farnam, Afshin Zarghi. Synthesis, Structural Characterization, and Cytotoxic

- Activity of New Benzo[d]imidazo[2,1-b]thiazole Derivatives Against MCF-7 Breast Cancer Cells. IJ Pharmaceutical Research. Impact Factor: 1.8
- **2021** Saeed Siavashy, Madjid Soltani, Fatemeh Ghorbani-Bidkorbeh, Newsha Fallah, Golrokh Farnam, Seyed Alireza Mortazavi, Farshad H. Shirazi, Mohammad Hassan Houshdar Tehrani, Mohammad Hossein Hamed. Microfluidic Platform for Synthesis and Optimization of Chitosan-Coated Magnetic Nanoparticles in Cisplatin Delivery. Carbohydrate Polymer. Impact Factor: 10.72
 - **2021** Maryam Bayanati, Soraya Shahhosseini, Farshad H. Shirazi, Golrokh Farnam, Afshin Zarghi . Design, Synthesis and Biological Evaluation of 1,3-Diphenyl-3-(phenylthio) propan-1-ones as New Cytotoxic Agents. IJ Pharmaceutical Research. Impact Factor: 1.8
 - **2021** Nizamova Alfina Ansafovna, Galiakhmetova Elvira Khalitovna, Mochalov Konstantin Sergeevich, Bokov Dmitry Olegovich, Golrokh Farnam, Kudashkina Natalia Vladimirovna. The determination of antioxidant activity of ethanol extracts of Gynostemma pentaphyllum. Iranian Journal of Pharmaceutical Sciences.
 - **2020** Golrokh Farnam, Narges Aryanpour, Reyhaneh Behtaj, Farshad H Shirazi. Cytotoxic and Cell Progression Effects of Mentha pulegium L Extract on Selected Cancer Cell Lines. Iranian Journal of Pharmaceutical Sciences. 2020
 - **2020** Mojdeh Mohseni, Sahar Barzegari, Abolfazl Dashti, Golrokh Farnam, Kamyar Keshavarz, Farshad H shirazi. Differential attachment of Pulmonary cells attachment on PDMS substrate with varied feature. IJ Pharmaceutical Research. Impact Factor: 1.8
 - **2019** Hariri S, Barzegari S, Keshavarz K, Nikounezhad N, Safaei B, Farnam G, Shirazi FH. FTIR bio-spectroscopy scattering correction using natural biological characteristics of different cell lines. Analyst. Impact Factor: 4.2

Books

2024 First Author: Golrokh Farnam

Clinical translation, challenges, biological toxicity and safety issues associated with stimuli-responsive nanocarriers in Innovative nanocarriers for stimulated drug delivery: A comprehensive guide to stimuli-responsive nanoparticles (Elsevier Science and Technology)

2024 Author: Golrokh Farnam

Principles of tumorigenesis in laboratory animals (Pharmaceutical Sciences Research Center Publication)

Supervisor: Dr. Farshad H. Shirazi

2022 Translator: Golrokh Farnam

Biotechnology in Cartoons (Pharmaceutical Sciences Research Center Publication)

Supervisor: Dr. Farshad H. Shirazi

2014 Editorial board author: Mehdi Rajabnia, Golrokh Farnam, Maryam Rashedi, Sohelia Mirjani

Dedicated Pharmacology (SQP) (Khalili Publication)

Supervisor: Dr. Mehrdad Faizi

Congress Oral Presentation

2022 Farnam G, Hosseini Shirazi F. The Complexity of Response to the Proliferation Agonist and Antagonist Agents, in the Breast Cancer Cell Lines with Various Receptors. 8th World Congress on Cancer Research and Therapy, Frankfurt, Germany.

2021 Farnam G, Barzegari S, Mohmadzade Asl B, Hosseini Shirazi F. Application of FTIR Biospectroscopy for the Study of tissues development and teratology. Modern developments of pharmaceutical science and education, Kazakhstan.

2020 Farnam G, Barzegari S, Mohmadzade Asl B, Hosseini Shirazi F. Evaluation of FTIR ability to differentiate various embryonic day of mouse fetal life. DISCOMS 2020, University of Groningen, the Netherlands.

2019 Farnam G, Hosseini Shirazi F. Introducing a new protocol for Lymph nodes effects of consumable products. Second International Congress on Pharmacy Updates, Tehran, Iran.

Congress Poster Presentations

2025 Azita Noshirvani Sharifabadi, Alireza Khosravi, Farshad H. Shirazi, Hanieh Shaki, Golrokh Farnam, Helma Vakili, HamidReza Moghimi, Farzad Kobarfard. Preparation and Characterization of Dendritic Nanoparticles for Nephthalimide Derivatives Encapsulation in Advanced Coating Applications. The 9th international color and coating congress, Kish, Iran.

2025 Niloofar Masoumi, Niki Pouyanfar, Mahnaz Ahmadi, Golrokh Farnam, Fatemeh Ghorbani-Bidkorpeh, Elham Asadian. Synthesis and Characterization of ZIF8@MXene Nanocomposite with Potential Application for Metformin Drug Delivery in Cancer Therapy. 1st SciPharma Congress, Tehran, Iran.

2025 Mohammad Mahdi Feizollahi, Sepehr Izadi, Fatemeh Ghorbani-Bidkorpeh, Elham Asadian, Arash Mahboobi, Mohammad Ali Shahbazi, Golrokh Farnam. Quince Seed Mucilage Scaffold Fabrication and Bismuth Nanoparticles in Bone Tissue Engineering. 1st SciPharma Congress, Tehran, Iran.

2025 Seyedeh Fargol Afzal, Reyhaneh Varshochian, Arash Mahboubi, Golrokh Farnam, Farshad H. Shirazi. Fabrication of PLGA-coated Gold Nanoparticles Containing Teriflunomide and Evaluation of its Physical Properties and Toxicity on Glioblastoma Cell Line. 1st SciPharma Congress, Tehran, Iran.

2023 Farshad H. Shirazi, Eisa Kaveh, Ebrahim Salimi-Sabour, Golrokh Farnam. Network Pharmacology Specifics Matrix Metalloproteinase 2 and 9 as the Cellular Targets for *Chenopodium album* L. Extract on Breast Cancer Cells. 6th International Cancer Congress, Tehran, Iran.

2023 Ali Jabarzadeh, Eisa Kaveh, Helya Bahavar, Kiana Farhadi Nejad, Golrokh Farnam, Farshad H. Shirazi. Apigenin Impact on Breast Cancer: A Mechanistic Study Based on Network Pharmacology. International Congress on BioMedicine (ICB2023)

2023 Farshad H. Shirazi, Eisa Kaveh, Ali Jabarzadeh, Helya Bahavar, Golrokh Farnam. Luteolin Targets in Colorectal Major Diseases Treatment: A Network Pharmacology and Molecular Docking Survey. 1st Annual Students Congress of Medical Sciences Universities, Tehran, Iran.

2023 Saba Arefi, Mohammad Arefi, Golrokh Farnam, Farshad H. Shirazi. FTIR spectroscopy application evaluation for the diagnosis of cancer in human stomach tissue. 6rd International Congress on Pharmacy Updates, Tehran, Iran.

2023 Mahboube Peyrovan, Golrokh Farnam, Farshad H. Shirazi. A new model for investigating spray inhalation toxicity. 6rd International Congress on Pharmacy Updates, Tehran, Iran.

2023 Eisa Kaveh, Golrokh Farnam, Farshad H. Shirazi. Luteolin Inhibits Breast Cancer Cells' by Androgen and Beta Estrogen Receptors; An In-Silico Study. 6rd International Congress on Pharmacy Updates, Tehran, Iran.

2023 Kiana Farhadi Nejad, Eisa Kaveh Vernousfaderani, Ali Jabbarzadeh, Helya Bahavar, Golrokh Farnam, Farshad H. Shirazi. *Salvia hypoleuca* Essential Oil Effects on Breast Cancer: A Network Pharmacology Perusal. 6rd International Congress on Pharmacy Updates, Tehran, Iran.

2022 Parnia Aftabi, Kimaya Karami, Eisa Kaveh, Golrokh Farnam, Farshad H. Shirazi. Iranian *Rosa persica* is a treasured gift with amazing antioxidant properties. IX international scientific conference of young scientists and students "Future of development of biology, medicine and pharmacy", Kazakhstan.

2022 Kimaya Karami, Parnia Aftabi, Eisa Kaveh, Golrokh Farnam, Farshad H. Shirazi. Iranian *Rosa persica*; an herb with a phenomenal antioxidant potency. The first International academic conference "Medicinal plants of Kyrgyzstan: Potential. Research. Use. Prospects"

2022 Kiana Farhadi Nejad, Eisa Kaveh, Mahdi Nasiri, Golrokh Farnam, Farshad H. Shirazi. Iranian *Salvia hypoleuca* antioxidant assay with DPPH. The first International academic conference "Medicinal plants of Kyrgyzstan: Potential. Research. Use. Prospects"

- 2022** Eisa Kaveh, Golrokh Farnam, Farshad H. Shirazi. The importance of DPPH antioxidant assay parameters in the measurement of *Mentha pulegium* antioxidant activity. "Medicinal plants of Kyrgyzstan: Potential. Research. Use. Prospects
- 2021** Arefi Saba, Mahdavinejad Arezou, Farnam Golrokh, Barzegari Banadkoki Sahar, Koohsari Nasim, Shadnia Shahin, H. Shirazi Farshad. Potential use of FTIR spectroscopy for the rapid identification of the blood Clonazepam in the poisoning management centers. ISCOMS 2021, University of Groningen, the Netherlands.
- 2020** Farnam G, Barzegari Banadkoki S, Mohammadzadehasl B, Hosseini Shirazi F. Evaluation of mouse fetus liver development with FTIR spectroscopy during the pregnancy. 3rd International Congress on Pharmacy Updates, Tehran, Iran.
- 2017** Farnam G, Barzegari Banadkoki S, Mohammadzadehasl B, Hosseini Shirazi F. Identification of determinant FTIR peaks from mice fetus liver development for teratogenic assay. 14th Iranian Congress of Toxicology, Shiraz, Iran.
- 2016** Farnam G, Ashtarinezhad A, Panahyab A, Mohammadzadehasl B, Hosseini Shirazi N, Hosseini Shirazi F. Fourier Transform Infrared Microspectroscopy application in the identification of phenobarbital induced fetus defects. 18th Iranian Pharmacy Students Seminar, Tabriz, Iran.
- 2016** Ashtarinezhad A, Panahyab A, Farnam G, Mohammadzadehasl B, Hosseini Shirazi F. Metronidazole teratogenic effects on fetus legs & arms; Fourier Transform Infrared Microspectroscopy study. 3rd International Congress of Veterinary Pharmacology & Pharmaceutical Sciences, Shahrekord, Iran.
- 2015** Farnam G, Mohammadzadehasl B, Hosseini Shirazi F. Mouse organs FTIR ID peaks for toxicological studies. 14th Iranian Pharmaceutical Sciences Congress, Tehran, Iran.
- 2013** Ashtarinezhad A, Mohammadzadehasl B, Panahyab A, Farnam G, Rashedi M, Hosseini Shirazi F. Mice liver FTIR-MSP 1540 cm⁻¹ wave number as the brain drug induced teratogenic marker. 12th Iranian Congress of Toxicology, Mazandaran, Iran.
- 2013** Ashtarinezhad A, Mohammadzadehasl B, Panahyab A, Farnam G, Rashedi M, Hosseini Shirazi F. FTIR-MSP 1580 cm⁻¹ wave number as the brain drug induced teratogenic marker. 12th Iranian Congress of Toxicology, Mazandaran, Iran.

Research Projects Participated

2025 Nanoparticle organelle targeting kinetics: a discussion on application. Project Registration Number: SBMU 43013012

2025 Construction and evaluation of wood/quince seed mucilage scaffold loaded with AI-assisted microfluidics synthesized statin@ZIF-8 nanoparticles: Application for osteo-regeneration. Project Registration Number: SBMU 43012675

2024 Investigating the effects of aerobic and anaerobic metabolic pathways of breast cancer cells in absorbing glucose from the media in the presence of metformin-Executer. Project Registration Number: SBMU 43011678

2024 Studying the effects of estrogen receptor agonist/antagonist on the cytotoxic effects of metformin in breast cancer cell lines- Executer. Project Registration Number: SBMU 43011682

2023 Isolation, identification, maintenance, and proliferation of mesenchymal stem cells for use in clinical studies- Researcher, Contributing collaborator. Project Registration Number: SBMU 43005184

2023 Developing a laboratory model of methanol poisoning in rats- Research assistant, Researcher. Project Registration Number: SBMU 43005090

2020 Comparison of cellular mode of death caused by MPF on lung and breast cell lines - Research assistant, Researcher. Project Registration Number: SBMU 16325

2019 Porous piezoelectric gel containing short strand poly vinylidene fluoride and graphene for neuromuscular regeneration - Researcher. Project Registration Number: SBMU Stem cells network 7801

2019 Purification of monoclonal antibody against recombinant TNF- α protein using affinity chromatography methods - Researcher

2019 MPF effects on breast cancer cell lines - Researcher. Project Registration Number: SBMU 16316

2018 Official research consultant of 38 students research projects on the herbaria plant picking, total extraction and biological evaluation of 38 herbs in Tehran restrict – Project Registration Numbers: SBMU (16602-16674)

2017 FTIR- Microspectroscopy (MSP) investigations of mouse fetus tissues, Research assistant, Researcher. Project Registration Number: SBMU 6005

Students Thesis Advisory Committee

- ▶ **2025** Construction and in vitro evaluation of scaffold based on Aloe Vera and ZIF-8 with potential application in bone tissue engineering
Student: Servin Hamidi
Supervisors: Dr. Fatemeh Ghorbani-Bidkorpbeh, Dr. Elham Asadian
Official Consultant: Dr. Golrokh Farnam, Dr. Niki Pouyanfar
- ▶ **2024** Fabrication and evaluation of diatomite and Aloe vera scaffold for use in bone tissue engineering
Student: Roghie Madani Pour
Supervisors: Dr. Fatemeh Ghorbani-Bidkorpbeh, Dr. Elham Asadian
Official Consultant: Dr. Golrokh Farnam
- ▶ **2024** Fabrication and in vitro evaluation of decellularized spinach scaffold containing ZIF-8 nanoparticles for wound healing
Student: Ali Hosseini
Supervisors: Dr. Fatemeh Ghorbani-Bidkorpbeh, Dr. Elham Asadian
Official Consultant: Dr. Golrokh Farnam, Dr. Niki Pouyanfar
- ▶ **2024** Construction and In Vitro Evaluation of a Wood Scaffold Loaded with Bismuth Nanoparticles for Potential Application in Bone Tissue Regeneratio
Student: Sara Soltani
Supervisors: Dr. Fatemeh Ghorbani-Bidkorpbeh, Dr. Elham Asadian
Official Consultant: Dr. Golrokh Farnam, Dr. Niki Pouyanfar
- ▶ **2024** Preparation and evaluation of basil seed hydrogel containing MXene nanosheets for the topical drug delivery of methotrexate in psoriasis.
Student: Shiva Asadian
Supervisors: Dr. Fatemeh Ghorbani-Bidkorpbeh, Dr. Farshad H. Shirazi, Dr. Elham Asadian
Official Consultant: Dr. Golrokh Farnam
- ▶ **2024** Synthesis and characterization of nanocomposite containing metal-organic framework and 2D nanosheets for breast cancer drug delivery.
Student: Niloufar Masoumi
Supervisors: Dr. Fatemeh Ghorbani-Bidkorpbeh, Dr. Elham Asadian
Official Consultant: Dr. Golrokh Farnam, Dr. Mahnaz Ahmadi, Dr. Niki Pouyanfar
- ▶ **2024** Preparation and Physicochemical Evaluation of Reverse Nanostructures as New Potential Carriers for Nucleic Acid-based Drug Delivery
PhD Student: Mohammad Farahmand
Supervisor: Dr. Hamidreza Moghimi, Dr. Farshad H. Shirazi
Official Consultant: Dr. Golrokh Farnam

- ▶ **2024** Construction and evaluation of wood/quince seed mucilage scaffold loaded with AI-assisted microfluidics synthesized statin@ZIF-8 nanoparticles for osteo-regeneration
PhD Student: Niki Pouyanfar
Supervisors: Dr. Fatemeh Ghorbani-Bidkorbeh, Dr. Farshad H. Shirazi, Dr. Elham Asadian
Official Consultant: Dr. Golrokh Farnam, Dr. Seyed Mohammad Ayubzade, Dr. Mahnaz Ahmadi

- ▶ **2024** Investigating the toxicity mechanism of paraben derivatives in cell and animal models
PhD Student: Mersad Bagherpoor
Supervisor: Dr. Farshad H. Shirazi, Dr. Jalal Pourahmad
Official Consultant: Dr. Golrokh Farnam

- ▶ **2023** Estrogen dependant cytotoxicity of Metformin
Student: Zahra Nikravesh
Supervisor: Dr. Farshad H. Shirazi
Official Consultant: Dr. Golrokh Farnam

- ▶ **2023** Development of gold nanoparticles coated with PLGA containing teriflunomide and evaluation of its in vitro performance on U-373 cell line
Student: Fargol Afzal
Supervisors: Dr. Arash Mahboubi, Dr. Reyhane Varshochian
Official Consultant: Dr. Golrokh Farnam

- ▶ **2023** Quince seed mucilage scaffold fabrication and Bismuth Nanoparticles in Bone tissue engineering
Student: Mohammad Mehdi Feizollahi
Supervisors: Dr. Fatemeh Ghorbani-Bidkorbeh, Dr. Elham Asadian
Official Consultant: Dr. Golrokh Farnam

- ▶ **2023** Fabrication of quince seed mucilage scaffold and MXene nanosheets in bone regeneration
Student: Sepehr Izadi
Supervisors: Dr. Fatemeh Ghorbani-Bidkorbeh, Dr. Elham Asadian
Official Consultant: Dr. Golrokh Farnam

- ▶ **2021** Anti diabetic effects of Tonekabon traditional medicine herbal extract (TU98) on blood glucose level and diabetic wounds in diabetogenized.
Student: Soha Solgi
Supervisor: Dr. Farshad H. Shirazi
Official Consultant: Dr. Golrokh Farnam

- ▶ **2021** Protocol design for the acute toxicity measurement following a sudden exposure to pesticide sprays.
Student: Mahboubeh Peyrovan
Supervisor: Dr. Farshad H. Shirazi
Official Consultant: Dr. Golrokh Farnam

- ▶ **2020** Evaluation of antibacterial activity of seedcoat of *Quercus infectoria* extract against 3 Gram negative and 3 Gram positive bacteria and its cytotoxic effect against HepG2, A549, MCF7 and HT29 cell line.
Student: Shayan Heydarian
Supervisors: Dr. Arash Mahboubi, Dr. Farshad H. Shirazi
Official Consultant: Dr. Golrokh Farnam

- ▶ **2020** FTIR Spectroscopy application evaluation for the diagnosis of cancer in human stomach tissue.
Student: Saba Arefi
Supervisors: Dr. Farshad H. Shirazi, Dr. Keyvan Ilchian
Official Consultant: Dr. Golrokh Farnam

- ▶ **2020** Relative cisplatin effects on various biomolecules of A2780 cell line.
Student: Nasim Koohsari
Supervisor: Dr. Farshad H. Shirazi
Official Consultant: Dr. Golrokh Farnam

- ▶ **2020** Evaluation of biological activities (cytotoxic, anti-bacterial & anti-oxidant effect) of *Cousinia pterocaulos*. Thesis Registration Number: SBMU 1850
Student: Samira Hazrati
Supervisors: Dr. Faraz Mojab, Dr. Arash Mahboubi
Official Consultants: Dr. Farshad H. Shirazi, Dr. Golrokh Farnam, Dr. Ebrahim Salimi Sabour

- ▶ **2019** Evaluation of biological activities (cytotoxic, anti-bacterial & anti-oxidant effect) of *Cirsium lappaceum*. Thesis Registration Number: SBMU 22426
Student: Sara Shah Hosseini
Supervisors: Dr. Faraz Mojab, Dr. Arash Mahboubi
Official Consultants: Dr. Golrokh Farnam, Dr. Ebrahim Salimi Sabour

Teaching Assistance of University Courses

- ▶ Cell Culturing Techniques **(2023-2024)**

School of Pharmacy, Shahid Beheshti University of Medical Sciences

- ▶ Cell Culturing Techniques **(2022-2023)**

School of Pharmacy, Shahid Beheshti University of Medical Sciences

- ▶ Pharmacology **(10/2017 – 01/2018)**

School of Nursing and Midwifery, Shahid Beheshti University of Medical Sciences

- ▶ Pharmacology **(10/2018 – 01/2019)**

School of Public Health and Safety, Shahid Beheshti University of Medical Sciences

Scientific Manuscripts Reviewer

Scientific Journals

- ▶ IJPS (Iranian Journal of Pharmaceutical Sciences)
Reviewer (2018/now)
Editorial Manager (2022/2023)
- ▶ IPA (International Pharmacy Acta)
Reviewer (2021/now)
Section-editor (2021/now)
- ▶ Characterization and Processing of New Materials for Innovative Applications (SCPNMIA)
Editorial Board (2024/now)
- ▶ IJPR (IJ Pharmaceutical Research)
Reviewer (2023/now)

Congresses

- ▶ Scientific Judge: 16th Iranian Pharmaceutical Sciences Congress **(10/2019)**
- ▶ Scientific Judge: 15th Iranian Congress of Toxicology **(11/2019)**

Skills

▶ **Language**

Mother tongue: Farsi (Persian)

Scientific: Fluent in writing and listening English, as well as professional and academic communication (Successful MHLE and MSRT test in English)

▶ **Computer**

- Microsoft Office (Word, PowerPoint, Excel)
- Prism
- Photoshop
- R programming (beginner)
- Python Programming (beginner)

▶ **Instrumental**

- FTIR
- HPLC
- PCR
- Flow Cytometry
- Fluorescence Microscopy

▶ **Standard Protocols Expert**

- Six-pack toxicology testing based on OECD and EPA standards
- Evaluation of medical devices, health products, drugs based on ISO standards

▶ **Laboratory**

2020 Conducting acute, sub-acute, and chronic toxicity tests (oral, respiratory, and dermal exposure) for chemical and biological samples.

2019 HPLC: a) Set up of new methods, problem solving, and calculations. b) Collaboration with Khaje-Nasir Engineering University students to design an A/D interface for old HPLC detectors to connect to new computers for computational peak processing instead of paper-based chromatopack systems.

2018 Design, supervision and test of a new clean room set up for nude animal experiments, Pharmaceutical Sciences Research Center, Shahid Beheshti University of Medical Sciences.

2017 Management of Cell Culture Laboratory, School of Pharmacy, Shahid Beheshti University of Medical Sciences.

Extracurricular Activities

▶ Students' community

2019 Presenting IPharmS in the 65th IPSF (International Pharmaceutical Students Federation) World Congress, Kigali, Rwanda

2019 PhD student's delegate in the Medical Council of the Islamic Republic of Iran

2018-2021 President of IPharmS, Iran Pharmacy Students network, improvement of IPharmS to 12 other faculties in Iran and 4 faculties abroad for a network of pharmacy students scientific and research activities.

▶ Seminars and Workshops Operations

• Executive committee

2020 Executive committee of third international congress on Pharmacy Updates, Razi International Convention Center, Tehran, Iran

2019 Executive committee of 15th Iranian Congress of Toxicology, School of Pharmacy, Shahid Beheshti University of Medical Sciences

2019 Executive Secretary of Skin Pharmacy and Pharmacotherapy Seminar, School of Pharmacy, Shahid Beheshti University of Medical Sciences

2019 Executive committee of second international congress on Pharmacy Updates, Razi International Convention Center, Tehran, Iran

2019 NMR and its application in drug analysis, School of Pharmacy, Shahid Beheshti University of Medical Sciences

2019 Nano pharmacy, School of Pharmacy, Shahid Beheshti University of Medical Sciences

2018 Executive committee of first international congress on Pharmacy Updates, Razi International Convention Center, Tehran, Iran

2014 Executive committee of third Iranian Congress on Natural Toxins School of Pharmacy, Shahid Beheshti University of Medical Sciences.

- **Scientific Committee**

2019 Scientific committee of 16th Iranian Pharmaceutical Sciences Congress, School of Pharmacy, Kermanshah University of Medical Sciences

2019 Scientific committee of 15th Iranian Congress of Toxicology, School of Pharmacy, Shahid Beheshti University of Medical Sciences

2019 Scientific committee of second international congress on Pharmacy Updates, Razi International Convention Center, Tehran, Iran

2018 Scientific committee of first international congress on Pharmacy Updates, Razi International Convention Center, Tehran, Iran

- **Campaigns participated**

2019 Public health campaign, Kigali, Rwanda

2019 Learn together campaign, Tehran, Iran

Congresses, Workshops and Seminar participated

- ▶ **Workshops**

2024 Key study considerations for preclinical research with aged mouse models, The Jackson laboratory.

2024 Unlocking insights with JAX's iPSCs, The Jackson laboratory.

2024 How-to guide for selecting xenografts & mouse models, The Jackson laboratory.

2024 Comparing immunodeficient mouse models, The Jackson laboratory.

2024 The consequences of sex bias in preclinical research, The Jackson laboratory.

2023 Ethical Guidelines Workshop in Finding and Communicating with Foreign Research Colleagues, SBMU

2023 Application of ChatGPT in Scientific Researches, School of Medical Education and Learning Technologies, SBMU

2023 The Science of Stem Cells, American Museum of Natural History

2023 Medical Journalism, Isfahan University of Medical Sciences

2022 Ethics and Methods of Working with Laboratory Animals-Theoretical and Practical

2022 Patent registration review workshop, SBMU

2022 Receptor-mediated early molecular events in chemical carcinogenesis, EUROTOX

2021 Learn the basics of patent registration, Iran Patent Center

2021 Familiarity with the lens database, Iran Patent Center

- 2021** Patent training, Iran Patent Center
- 2020** R programming, Maktabkhooneh
- 2020** Statistics and SPSS, USERN
- 2020** Editing Books with International Publishers, USERN
- 2020** Meta-Analysis, USERN
- 2020** Paper Submission and Journal Selection, USERN
- 2020** Systematic Review, USERN
- 2020** Scientific Writing, USERN
- 2020** Creating a good research data managing plan, Elsevier Researcher Academy
- 2019** Vaccination role in sustainable healthcare, 65th IPSF World Congress, Kigali, Rwanda
- 2018** Introduction to Scholarly Publishing (Elsevier Researcher Academy), School of Medicine, Shahid Beheshti University of Medical Sciences
- 2016** Matlab software, School of Pharmacy, Shahid Beheshti University of Medical Sciences

► **Congresses**

- 2025** 14th Iranian Clinical Pharmacy Congress, Tehran, Iran.
- 2025** 2nd International Congress on Artificial Intelligence in Medical Sciences, Tehran, Iran.
- 2025** The 4th Conference and Exhibition on Iranian Medical Biotech Products (IRAN BIO), Tehran, Iran.
- 2023** 6rd International Congress on Pharmacy Updates, Tehran, Iran.
- 2022** Medicinal plants of Kyrgyzstan: potential, research, use, prospects, International Medical University Maltepe University, Kyrgyzstan.
- 2021** Modern trends in the development of pharmaceutical science and education, The republic of Kazakhstan.
- 2020** ISCOMS, Groningen, the Netherlands.
- 2020** 3rd International Congress on Pharmacy Updates, Tehran, Iran
- 2019** Skin Pharmacy and Pharmacotherapy Seminar, Tehran, Iran
- 2019** Second International Congress on Pharmacy Updates, Tehran, Iran
- 2019** 16th Iranian Pharmaceutical Sciences Congress, Kermanshah, Iran
- 2019** 15th Iranian Congress of Toxicology, Tehran, Iran
- 2018** First International Congress on Pharmacy Updates, Tehran, Iran
- 2017** 19th Iranian Pharmacy Students Seminar, Shiraz, Iran
- 2017** 14th Iranian Congress of Toxicology, Shiraz, Iran
- 2016** 18th Iranian Pharmacy Students Seminar, Tabriz, Iran
- 2015** 14th Iranian Pharmaceutical Sciences Congress, Tehran, Iran
- 2013** 12th Iranian Congress of Toxicology, Mazandaran, Iran